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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/904,752	07/13/2001	Brian Maroney	1671-0160	3343	
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Paul J. Maginot Maginot, Addison & Moore Bank One Center/Tower 111 Monument Circle, Suite 3000 Indianapolis, IN 46204-5115			EXAMINER		
			MILLER, CHERYL L		
			ART UNIT	PAPER NUMBER	
•			3738	Q	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No. Applicant		Applicant(s)	(s)			
		09/904,752	MARONEY ET AL.		<u>.</u> .			
Office	Examin r		Art Unit					
		Cheryl Miller		3738				
Th MAIL Period for Reply	Th MAILING DATE of this communication app ars on the cov r sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status								
1)⊠ Responsiv	ve to communication(s) filed on <u>29 J</u>	<u>anuary 2003</u> .						
2a) This action	n is <b>FINAL</b> . 2b)⊠ Thi	s action is non-fi	nal.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims								
4)⊠ Claim(s) <u>1-56</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-56</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers								
9)☐ The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
1.☐ Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
14)∏ Acknowledgr	nent is made of a claim for domestic	priority under 3	· 5 U.S.C. § 119(e)	(to a provisional	application).			
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
3) Information Disclosu	s Cited (PTO-892) on's Patent Drawing Review (PTO-948) tre Statement(s) (PTO-1449) Paper No(s)	4)		PTO-413) Paper No(: atent Application (PTC				
J.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office Act	ion Summary		Part of	Paper No. 9			

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#### **DETAILED ACTION**

#### Response to Arguments

Applicant's arguments filed January 29, 2003 with respect to the 102 rejection of claims 28, 31-33, 35-37, 40-42, 44, 49-52, and 55 over Kummer (USPN 5,910,171), the 102 rejection of claims 49-55 over Huebner (USPN 6,102,953), the 103 rejection of claims 3-4, 10, 18-19, and 24 over Farey in view of Kummer, the 103 rejection of claims 29-30 and 38-39 over Kummer in view of Farey, and the 103 rejection of claims 34 and 43 over Kummer have been fully considered and are persuasive. The above rejections have been withdrawn.

Applicant's arguments filed January 29, 2003 for the 102 rejection of claims 45-48 and 53-54 and the 103 rejection of claims 1-2, 5-9, 11-17, 20-23, and 25-27 over Farey USPN 6,203,575 B1 have been fully considered but they are not persuasive. Applicant claims "positioning said trial assembly in a scale mechanism whereby said trial offset indicia of said trial head portion aligns with a value on said scale mechanism." Applicant has argued that Farey does not disclose a scale mechanism having a value. Value is defined broadly as a numerical quantity that is assigned or is determined by calculation or measurement. Applicant has argued that their invention has a scale having values 1-11. However, applicant has not claimed that the numerical values must engraved or drawn on the scale. The definition allows a value to be determined by calculation or measurement. Farey's scale is a disc divided into sections, each section representing a different degree of value on the disc. The reference mark H disclosed by Farey may measure the degree of offset, therefore Farey does disclose values on his scale mechanism, the value being the reference mark H or divided sections of the disc, each section and mark representing a different numerical degree, wherein the value of offset is determined by

calculation or measurement. For example, watches may have numbers, symbols, markings, dashes, and etc. to represent a value of time. It is the positioning of the mark, not necessarily the number that determines the value. Farey clearly has shown a disc having a surface resembling a clock, divided into a plurality of sections, each section edge being a marking, and each marking having a value.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 56 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 56 recites the limitation "said value" in line 17. There is insufficient antecedent basis for this limitation in the claim.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 45-56 are rejected under 35 U.S.C. 102(e) as being anticipated by Farey (USPN 6,203,575 B1, cited in previous office action). Referring to claims 45-48, 53-54, and 56, Farey

discloses a prosthesis implantation method, which includes all limitations recited in the claims. Farey discloses a method (col.1, lines 35-53) comprising providing and positioning a trial assembly (6) in a resected bone (36), the trial assembly (6) including a trial body (7) having a trial body mating component (9), and a trial head having a trial head member (8) which includes a trial offset indicia (hole, 42, 43, marking, col.4, line 64), and an eccentrically located (col.3, lines 57-60) trial head mating component (11) configured to mate with said body mating component (9, 10), rotating or moving the head (8) relative the body (7) in the resected bone (36) wherein the head (8) covers a resected surface (37) of the resected bone (fig. 3, 6, 11; col. 3, lines 62-64) and is at a user-selected orientation (col.1, lines 58-63), removing the trial assembly (6), positioning the trial assembly (6) in a scale mechanism (1), (col.1, line 49-50), where head offset indicia (42, 43) aligns with a value (H) or series of gradations (divided openings/sections, see figures) on the scale mechanism (1), (col.5, line 41-col.6, line 2), securing or attaching a final head (4) to a final body (3) based on the value (position/degree of offset, col.5, lines 10-12) and implanting the final prosthesis (2) in the resected bone (36), (col.5, lines 12-17). Farey discloses body and head mating components (11, 9, 10) selected from the group consisting of a bore and a stem (col.3, lines 45-46).

Referring to claims 49-52 and 55, Farey discloses a kit comprising a trial assembly (6) including a trial body (7) having a trial body mating component (9), a trial head (8) having a trial head member which includes a trial offset indicia (marking, col.4, line 64), and an eccentrically located trial head mating component (11), configured to mate with the trial body mating component (9, 10) or a fastener for securing the trial head to the trial body, and a final prosthesis assembly (2) including a final body (3) having a final body mating component, and a final head

(4) having a final head member which includes a final offset indicia (marking, col.5, line 10), and an eccentrically located final head mating component configured to mate with the body mating component (fig.3, 4a). Farey discloses the trial and final body mating components (9, 10, 11) selected from a bore and a stem (col.3, lines 45-46).

Claims 1-2, 4-5, 9-10, 16-17, 19-20, 24, 27-28, 32-33, 35-37, 41-42, and 44-56 are rejected under 35 U.S.C. 102(e) as being anticipated by Hartdegen et al. (Pub. No. US 2001/0053935 A1). Hartdegen discloses an implantation method and kit, see underlined portions of the specification, particularly pages 3-5. Referring to claims 1, 17, 45-48, 53-54, and 56, Hartdegen discloses a prosthesis implantation method (0002) comprising providing and positioning a trial assembly in a resected bone, the trial assembly including a trial body (30) having a bore as a body mating component (cavity of stem, 0042), and a trial head (34) having a trial head member, which includes a trial offset indicia (0037), and an eccentrically located trial head stem mating component (projection of head, 0042) configured to mate with the bore on the body, rotating or moving the trial head (34) relative the trial body (30) in the resected bone, wherein the head (34) covers a resected surface of the resected bone and is at a user-selected orientation, removing the trial assembly, positioning the trial assembly in a scale mechanism (70), where the trial offset indicia aligns with a value on the scale mechanism (70), securing or attaching a final head (34) to a final body (30) based on the value and implanting the final prosthesis in the resected bone.

Referring to claims 28, 36, 37, 49-52, and 55, Hartdegen discloses a kit comprising a trial assembly including a trial body (30) having a bore (cavity of stem, 0042), a trial head (34) having an offset indicia and an eccentrically located stem (projection on head, 0042), the stem

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configured to be received within the bore and a final prosthesis assembly including a final body (30) having a bore (cavity of stem, 0042), a final head (34) having an offset indicia and an eccentrically located stem (projection on head, 0042), the stem configured to be received within the bore.

Referring to claim 2, Hartdegen discloses securing the trial head to the trial body when the head is positioned relative to the body at the aligned orientation.

Referring to claims 4, 19, 33, and 42, Hartdegen discloses a trial body (30) portion including a body stem (32), neck, and flat (fig.15), wherein the bore (cavity of stem, 0042) extends through the flat into the neck (fig.15).

Referring to claim 5, Hartdegen discloses a scale mechanism (70) including an indicia surface wherein the value is on the indicia surface (0054).

Referring to claims 9, 10, 20, 24, 32, and 41, Hartdegen discloses a final head portion including a final head member having an offset indicia and an eccentrically located stem. Hartdegen discloses a final head stem having a male taper, a final body having a bore with a female taper, the stem is advanced into the bore in a friction fit manner (0041, 0042).

Referring to claims 16, 27, 35, 44, Hartdegen discloses implanting the prosthesis into a resected humerus (0056, 0057).

For further clarity, it is noted to the applicant that the "intermediate connecting component" discloses by Hartdegen, may be integral with the head portion, therefore may constitute the eccentric stem of the head (see 0042, wherein an alternative embodiment, a first connector (head stem) is adapted to be at least partially received in a cavity of stem (body portion)-wherein 0043 recites, intermediate connecting component need not be a separate

component. In one embodiment, intermediate connecting component is permanently attached to head or stem.)

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4-5, 7-17, 19-20, 22-29, 32-38, and 41-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Farey (USPN 6,203,5756 B1, cited in previous office action). Farey discloses a prosthesis implantation method substantially as claimed. Referring to claims 1, 4, 9-10, 17, 19, 24, 32, 37, and 41, Farey discloses a method (col.1, lines 35-53) comprising providing and positioning a trial assembly (6) in a resected bone (36), the trial assembly (6) including a trial body (7) having a body mating component (9), and a trial head having a trial head member (8), and an eccentrically located (col.3, lines 57-60) trial head mating component (11) configured to mate with said body mating component (9, 10), a final head portion (4), and an eccentrically located final head mating component (11), rotating or moving the trial head (8) relative the trial body (7) in the resected bone (36) wherein the head (8) covers a resected surface (37) of the resected bone (fig.3, 6, 11; col.3, lines 62-64) and is at a user-selected orientation (col.1, lines 58-63). Farey discloses offset indicia on a trial and final head portion (marking, col.4, line 64, col.5, line 10). Farey discloses removing the trial assembly (6), positioning the trial assembly (6) in a scale mechanism (1), (col.1, line 49-50), where head surface indicia

(marking) aligns with a value (H) on the scale mechanism (1), (col.4, lines 63-66; col.5, line 41-col.6, line 2), securing or attaching a final head (4) to a final body (3) based on the value (col.5, lines 10-12) and implanting the final prosthesis (2) in the resected bone (36), (col.5, lines 12-17). Farey discloses body (9, 10) and head mating components (11) selected from the group consisting of a bore and a stem (col.3, lines 45-46). Farey discloses the claimed invention except for discloses a bore (11) in the head (4, 8) instead of the body (3, 6) and a stem (9, 10) in the body (3, 6) instead of the head (4, 8). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a bore in the body and stem in the head since it has been held that a mere reversal of the essential working parts of a device involves only routine skill in the art. *In re Einstein*, 8 USPO 167.

Referring to claims 28, 33, 36, 37, and 42, Farey discloses a kit comprising a trial assembly (6) including a trial body (7) having a trial body mating component (9), a trial head (8) having a trial head member which includes a trial offset indicia (marking, col.4, line 64), and an eccentrically located trial head mating component (11), configured to mate with the trial body mating component (9, 10) or a fastener for securing the trial head to the trial body, and a final prosthesis assembly (2) including a final body (3) having a final body mating component, and a final head (4) having a final head member which includes a final offset indicia (marking, col.5, line 10), and an eccentrically located final head mating component configured to mate with the body mating component (fig.3, 4a). Farey discloses the trial and final body mating components (9, 10, 11) selected from a bore and a stem (col.3, lines 45-46). Farey discloses the claimed invention except for discloses a bore (11) in the head (4, 8) instead of the body (3, 6) and a stem (9, 10) in the body (3, 6) instead of the head (4, 8). It would have been obvious to one having

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ordinary skill in the art at the time the invention was made to have a bore in the body and stem in the head since it has been held that a mere reversal of the essential working parts of a device involves only routine skill in the art. *In re Einstein*, 8 USPQ 167.

Referring to claims 2 and 13, Farey discloses securing the trial and final head to the trial and final body respectively when head and body portions are aligned (fig. 3, 6, 11, 9, 10, 13).

Referring to claims 5, 7-8, 11-12, 14, 20, 22-23, 25, 29, and 38, Farey discloses a scale mechanism (1) including an indicia surface (20) and an identified value (H) on the indicia surface. Farey discloses a scale mechanism (1) including a channel (21, 17) and locating a trial and final body portion within the channel and locating a trial and final head portion adjacent to the indicia surface (fig.12, 14; col.4, lines 58-61) and aligning the final offset indicia with a value on the indicia surface (col.5, lines 10-12).

Referring to claims 6, 21, 30, and 39, Farey discloses a scale mechanism having an indicia surface possessing markings (marking being an aperture or divider located between each aperture) which depict a clock (fig.9) which is divided into a plurality of sections (each section being one of the apertures around the perimeter of the disc) and the value (H, K) is identified on one of the sections.

Referring to claims 16, 27, 35, and 44, Farey discloses a resected humerus bone (36) wherein a trial body and final body are configured to be advanced into the humerus (fig.3).

Referring to claims 15, 26, 34, and 43, Farey discloses surface indicia on a head portion of a prosthesis (col.4, line 64) in the form of a marking. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to use a removable sticker or notch in place of a marking because applicant has not disclosed that a

removable sticker or notch provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected applicant's invention to perform equally well with a marking because all perform to visually indicate a position. Therefore, it would have been an obvious matter of design choice to modify Farey to obtain the invention as specified in claims 15 and 26.

Claims 3-4, 18-19, 31, 33, 40, and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Farey (USPN 6,203,575 B1, cited in previous office action) in view of Leonard et al. (USPN 6,228,120 B1, cited in previous office action). Farey discloses a trial assembly having a trial body bore portion and trial stem head portion (see above), however does not disclose the bore and stem having threads. Leonard teaches in the same field of trial prostheses, body portions (1) having threaded bores (8) and head portions (20) having threaded stems (17a) in order to provide a fastening means to fix the head portion to the body portion (col.3, lines 63-65; col.6, lines 54-59; col.9, lines 24-37). It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine Leonard's teaching of threaded engagement between head and body components, with the head and body component assembly of Farey, in order to provide a fastening means to fix the trial head portion to the trial body portion.

In an alternative to the above rejection, claims 3-4, 18-19, 31, 33, 40, and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hartdegen et al. (Pub. No. US 2001/0053935 A1) in view of Leonard et al. (USPN 6,228,120 B1, cited in previous office action). Hartdegen discloses a trial assembly having a trial body bore portion and trial stem head portion (see above), however does not disclose the bore and stem having threads. Leonard teaches in the

same field of trial prostheses, body portions (1) having threaded bores (8) and head portions (20) having threaded stems (17a) in order to provide a fastening means to fix the head portion to the body portion (col.3, lines 63-65; col.6, lines 54-59; col.9, lines 24-37). It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine Leonard's teaching of threaded engagement between head and body components, with the head and body component assembly of Hartdegen, in order to provide a fastening means to fix the trial head portion to the trial body portion.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheryl Miller whose telephone number is (703) 305-2812. The examiner can normally be reached on Monday through Friday from 7:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott, can be reached on (703) 308-2111. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3590.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

Cheryl Miller

April 16, 2003

BRUCE SNOW
PRIMARY EXAMINER